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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/560,269	Dorotea Raventos Segura	10496.204-US

INTERNATIONAL APPLICATION NO.	
PCT/DK04/00399	
I.A. FILING DATE	PRIORITY DATE
06/10/2004	06/11/2003

25908  
 NOVOZYMES NORTH AMERICA, INC.  
 500 FIFTH AVENUE  
 SUITE 1600  
 NEW YORK, NY 10110

CONFIRMATION NO. 8013

371 FORMALITIES LETTER



\*OC000000021938639\*

Date Mailed: 01/16/2007

### NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://portal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

BARBARA A CAMPBELL

Telephone: (703) 308-9140 EXT 217

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/560,269	PCT/DK04/00399	10496.204-US

FORM PCT/DO/EO/922 (371 Formalities Notice)

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/560,269  
Source: IFWP  
Date Processed by STIC: 12/20/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chknote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

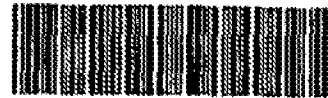
### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 10/560,269

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1.      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2.      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
3.      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4.      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5. ✓ Variable Length     Sequence(s) 1 contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6.      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)         . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7.      Skipped Sequences  
    (OLD RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence:  
                    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                    (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                    This sequence is intentionally skipped  
  
                    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8.      Skipped Sequences  
    (NEW RULES)     Sequence(s)          missing. If intentional, please insert the following lines for each skipped sequence.  
                    <210> sequence id number  
                    <400> sequence id number  
                    000
9.      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10.      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11.      Use of <220>     Sequence(s)          missing the <220> "Feature" and associated numeric identifiers and responses.  
                    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12.      PatentIn 2.0  
    3 "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13.      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IPWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/560,269

DATE: 12/20/2005

TIME: 11:19:31

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\12202005\J560269.raw

3 <110> APPLICANT: Segura, Dorotea Raventos  
 4 Mygind, Per Holse  
 5 Hogenhaug, Hans-Henrik Kristensen  
 6 Tossi, Alessandro  
 8 <120> TITLE OF INVENTION: Antimicrobial Peptides  
 10 <130> FILE REFERENCE: 10496.204-US  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/560,269  
 C--> 12 <141> CURRENT FILING DATE: 2005-12-09  
 12 <160> NUMBER OF SEQ ID NOS: 52  
 14 <170> SOFTWARE: PatentIn version 3.3

Does Not Comply  
 affected Diskette Needs

## ERRORED SEQUENCES

1023 <210> SEQ ID NO: 52  
 1024 <211> LENGTH: 19  
 1025 <212> TYPE: DNA  
 1026 <213> ORGANISM: Artificial  
 1028 <220> FEATURE:  
 1029 <223> OTHER INFORMATION: Primer 4 sequence  
 1031 <400> SEQUENCE: 52  
 1032 acctagttg cgcccatcg  
 E--> 1038 1

19

delete

(see p2 for more errors)

10/560,269  
OK, since it's explained  
> variable length not permitted.  
<220>  
<221> MISC\_FEATURE  
<222> (18) .. (18)  
<223> Xaa = Z or Z-arginine-tryptophane-leucine, wherein Z =  
phenylalanine, leucine, arginine, alanine, glycine, valine,  
tyrosine, cysteine or proline

<400> 1

Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa

2  
see item 5  
on Euro  
summary sheet  
↓  
Xaa cannot represent  
more than one amino  
acid

see p.3

10/560,269 3

<210> 1  
<211> 18  
<212> PRT  
<213> Artificial

<220>  
<223> Synthetic antimicrobial polypeptide

<220>  
<221> MISC FEATURE  
<222> (2)..(2)  
<223> Xaa = leucine, isoleucine, tryptophan or methionine

<220>  
<221> MISC FEATURE  
<222> (3)..(3)  
<223> Xaa = leucine, phenylalanine, tryptophan or valine

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/560,269

DATE: 12/20/2005

TIME: 11:19:32

Input Set : A:\Sequence.ST25.txt

Output Set: N:\CRF4\12202005\J560269.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:1038 M:254 E: No. of Bases conflict, this line has no nucleotides.